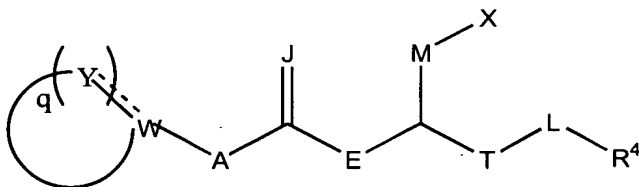


Claims

We claim:

1. A compound of the structure



wherein Y, at each occurrence, is independently selected from the group consisting of C(O), N, CR¹, C(R²)(R³), NR⁵, CH, O and S;

q is an integer of from 3 to 10;

A is selected from the group consisting of O, S, C(R¹⁶)(R¹⁷) and NR⁶;

E is selected from the group consisting of CH₂, O, S, and NR⁷;

J is selected from the group consisting of O, S and NR⁸;

T is selected from the group consisting of C(O) and (CH₂)_b wherein b is an integer of from 0 to 3;

M is selected from the group consisting of C(R⁹)(R¹⁰) and (CH₂)_u, wherein u is an integer of from 0 to 3;

L is selected from the group consisting of O, NR¹¹, S, and (CH₂)_n wherein n is an integer of 0 or 1;

X is selected from the group consisting of CO₂B, PO₃H₂, SO₃H, SO₂NH₂, SO₂NHCOR¹², OPO₃H₂, C(O)NHC(O)R¹³, C(O)NHSO₂R¹⁴, hydroxyl, tetrazolyl and hydrogen;

W is selected from the group consisting of C, CR¹⁵ and N; and

B, R¹, R², R³, R⁴, R⁵, R⁶, R⁷, R⁸, R⁹, R¹⁰, R¹¹, R¹², R¹³, R¹⁴, R¹⁵, R¹⁶ and R¹⁷ at each occurrence are independently selected from the group consisting of

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hydrogen, halogen, alkyl, alkenyl, alkynyl, alkoxy, alkenoxy, alkynoxy, thioalkoxy, hydroxyalkyl, aliphatic acyl, -CF₃, -CO₂H, -SH, -CN, -NO₂, -NH₂, -OH, alkynylamino, alkoxycarbonyl, heterocycloyl, carboxy, -N(C₁-C₃ alkyl)-C(O)(C₁-C₃ alkyl), -NHC(O)N(C₁-C₃ alkyl)C(O)NH(C₁-C₃alkyl), -NHC(O)NH(C₁-C₆ alkyl), -NHSO₂(C₁-C₃ alkyl), -NHSO₂(aryl), alkoxyalkyl, alkylamino, alkenylamino, di(C₁-C₃)amino, -C(O)O-(C₁-C₃)alkyl, -C(O)NH-(C₁-C₃)alkyl, -C(O)N(C₁-C₃ alkyl)₂, -CH=NOH, -PO₃H₂, -OPO₃H₂, haloalkyl, alkoxyalkoxy, carboxaldehyde, carboxamide, cycloalkyl, cycloalkenyl, cycloalkynyl, cycloalkylalkyl, aryl, aroyl, aryloxy, arylamino, biaryl, thioaryl, diarylamino, heterocyclyl, alkylaryl, aralkenyl, aralkyl, alkylheterocyclyl, heterocyclylalkyl, sulfonyl, -SO₂-(C₁-C₃ alkyl), -SO₃-(C₁-C₃ alkyl), sulfonamido, carbamate, aryloxyalkyl and -C(O)NH(benzyl) groups;

wherein B, R¹, R², R³, R⁴, R⁵, R⁶, R⁷, R⁸, R⁹, R¹⁰, R¹¹, R¹², R¹³, R¹⁴, R¹⁵, R¹⁶ and R¹⁷ are unsubstituted or substituted with at least one electron donating or electron withdrawing group;

wherein when L is NR¹¹, R⁴ and R¹¹ taken together may form a ring; and wherein when M is C(R⁹)(R¹⁰), R⁹ and R¹⁰ taken together may form a ring;

and wherein when A is NR⁶ and at least one Y is CR¹, R¹ and R⁶ taken together may form a ring;

or a pharmaceutically acceptable salt thereof;

with the proviso that when A is C(R¹⁶)(R¹⁷), E is not NR⁷.

25 2. A compound of claim 1 wherein

A is NR⁶;

E is NR⁷;

J is O;

M is C(R⁹)(R¹⁰);

30 q is 4 or 5;

T is (CH₂)_b wherein b is 0;

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L is $(CH_2)_n$ wherein n is 0;

X is CO_2B ;

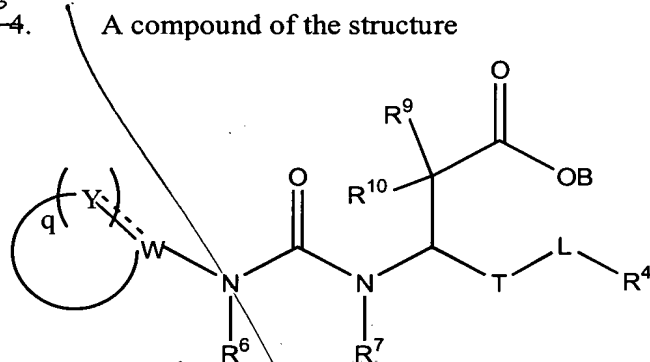
W is C or CR^{15} ;

R^4 is selected from the group consisting of aryl, alkylaryl, aralkyl,

5 heterocyclyl, alkylheterocyclyl and heterocyclalkyl; and

R^6 , R^7 , R^9 , R^{10} and R^{15} are independently selected from the
group consisting of hydrogen and lower alkyl.

3. A compound of claim 1 which is a derivative thereof selected from the group
10 consisting of esters, carbamates, amins, amides, optical isomers and pro-drugs.



wherein Y, at each occurrence, is independently selected from the group
15 consisting of $C(O)$, N, CR^1 , $C(R^2)(R^3)$, NR^5 , CH, O and S;

q is an integer of from 3 to 7;

T is selected from the group consisting of $C(O)$ and $(CH_2)_b$ wherein b is an
integer of 0 to 3;

L is selected from the group consisting of O, NR^{11} , S, and
20 $(CH_2)_n$ wherein n is an integer of 0 or 1;

W is selected from the group consisting of C, CR^{15} and N; and

B , R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , R^7 , R^9 , R^{10} , R^{11} and R^{15} are independently selected
from the group consisting of hydrogen, halogen, alkyl, alkenyl, alkynyl,
alkoxy, alkenoxy, alkynoxy, thioalkoxy, hydroxyalkyl, aliphatic acyl, $-CF_3$,
25 $-CO_2H$, $-SH$, $-CN$, $-NO_2$, $-NH_2$, $-OH$, alkynylamino, alkoxycarbonyl,

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heterocycloyl, carboxy, -N(C₁-C₃ alkyl)-C(O)(C₁-C₃ alkyl),
-NHC(O)N(C₁-C₃ alkyl)C(O)NH(C₁-C₃alkyl), -NHC(O)NH(C₁-C₆ alkyl),
-NHSO₂(C₁-C₃ alkyl), -NHSO₂(aryl), alkoxyalkyl, alkylamino,
alkenylamino, di(C₁-C₃)amino, -C(O)O-(C₁-C₃)alkyl,
-C(O)NH-(C₁-C₃)alkyl, -C(O)N(C₁-C₃ alkyl)₂, -CH=NOH, -PO₃H₂,
-OPO₃H₂, haloalkyl, alkoxyalkoxy, carboxaldehyde, carboxamide,
cycloalkyl, cycloalkenyl, cycloalkynyl, cycloalkylalkyl, aryl, aroyl,
aryloxy, arylamino, biaryl, thioaryl, diarylamino, heterocyclyl, alkylaryl,
aralkenyl, aralkyl, alkylheterocyclyl, heterocyclylalkyl, sulfonyl, -SO₂-(C₁-
C₃ alkyl), -SO₃-(C₁-C₃ alkyl), sulfonamido, carbamate, aryloxyalkyl and
-C(O)NH(benzyl) groups;
wherein B, R¹, R², R³, R⁴, R⁵, R⁶, R⁷, R⁹, R¹⁰, R¹¹ and R¹⁵ are
unsubstituted or substituted with at least one electron donating or
electron withdrawing group;
wherein when L is NR¹¹, R⁴ and R¹¹ taken together may form a ring;
and wherein R⁹ and R¹⁰ taken together may form a ring;
and wherein when at least one Y is CR¹, R¹ and R⁶ taken together
may form a ring;
or a pharmaceutically acceptable salt thereof.

A compound of claim 4 wherein

q is 4 or 5;

W is C or CR¹⁵;

T is (CH₂)_b wherein b is 0;

L is (CH₂)_n wherein n is 0;

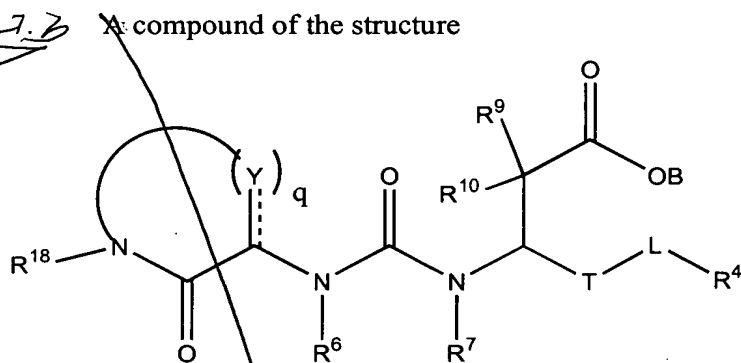
R⁴ is selected from the group consisting of aryl, alkylaryl, aralkyl,

heterocyclyl, alkylheterocyclyl and heterocyclylalkyl; and

R⁶, R⁷, R⁹, R¹⁰ and R¹⁵ are independently selected from the

group consisting of hydrogen and lower alkyl.

6. A compound of claim 4 which is a derivative thereof selected from the group consisting of esters, carbamates, amins, amides, optical isomers and pro-drugs.



wherein Y, at each occurrence, is independently selected from the group consisting of C(O), N, CR¹, C(R²)(R³), NR⁵, CH, O and S;

q is an integer of from 2 to 5;

T is selected from the group consisting of C(O) and (CH₂)_b wherein b is an integer of 0 to 3;

L is selected from the group consisting of O, NR¹¹, S, and (CH₂)_n wherein n is an integer of 0 or 1;

R⁵, R⁶, R⁷, R¹¹ and R¹⁸ are each independently selected from the group consisting of alkyl, alkenyl, alkynyl, hydroxyalkyl, aliphatic acyl, alkynylamino, alkoxycarbonyl, heterocycloyl, -CH=NOH, haloalkyl, alkoxyalkoxy, carboxaldehyde, carboxamide, cycloalkyl, cycloalkenyl, cycloalkynyl, cycloalkylalkyl, aryl, aroyl, aryloxy, arylamino, biaryl, thioaryl, diarylamino, heterocyclyl, alkylaryl, aralkenyl, aralkyl, alkylheterocyclyl, heterocyclylalkyl, carbamate, aryloxyalkyl, hydrogen and -C(O)NH(benzyl) groups; and

B, R¹, R², R³, R⁴, R⁹ and R¹⁰ are independently selected from the group consisting of hydrogen, halogen, alkyl, alkenyl, alkynyl, alkoxy, alkenoxy, alkynoxy, thioalkoxy, hydroxyalkyl, aliphatic acyl, -CF₃, -CO₂H, -SH, -CN, -NO₂, -NH₂, -OH, alkynylamino, alkoxycarbonyl,

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heterocycloyl, carboxy, -N(C₁-C₃ alkyl)-C(O)(C₁-C₃ alkyl),
-NHC(O)N(C₁-C₃ alkyl)C(O)NH(C₁-C₃alkyl), -NHC(O)NH(C₁-C₆ alkyl),
-NHSO₂(C₁-C₃ alkyl), -NHSO₂(aryl), alkoxyalkyl,alkylamino,
alkenylamino, di(C₁-C₃)amino, -C(O)O-(C₁-C₃)alkyl,
5 -C(O)NH-(C₁-C₃)alkyl, -C(O)N(C₁-C₃ alkyl)₂, -CH=NOH, -PO₃H₂,
-OPO₃H₂, haloalkyl, alkoxyalkoxy, carboxaldehyde, carboxamide,
cycloalkyl, cycloalkenyl, cycloalkynyl, cycloalkylalkyl, aryl, aroyl,
aryloxy, arylamino, biaryl, thioaryl, diarylamino, heterocyclyl, alkylaryl,
aralkenyl, aralkyl, alkylheterocyclyl, heterocyclylalkyl, sulfonyl, -SO₂-(C₁-
10 C₃ alkyl), -SO₃-(C₁-C₃ alkyl), sulfonamido, carbamate, aryloxyalkyl and
-C(O)NH(benzyl) groups;

wherein B, R¹, R², R³, R⁴, R⁵, R⁶, R⁷, R⁹, R¹⁰, R¹¹ and R¹⁸ are
unsubstituted or substituted with at least one electron donating or
electron withdrawing group;

wherein when L is NR¹¹, R⁴ and R¹¹ taken together may form a ring;

and wherein R⁹ and R¹⁰ taken together may form a ring;

and wherein when at least one Y is CR¹, R¹ and R⁶ taken
together may form a ring;

or a pharmaceutically acceptable salt thereof.

8. A compound of claim 7 wherein R¹⁸ is selected from the group consisting of
hydrogen, alkyl, aryl, aralkyl, cycloalkyl, alkylheterocyclyl,
heterocyclylalkyl and heterocyclyl;

T is (CH₂)_b wherein b is 0;

L is (CH₂)_n wherein n is 0;

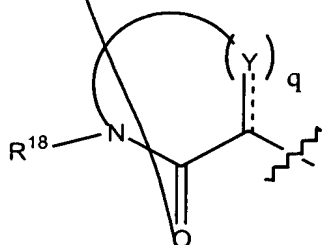
Y is selected from the group consisting of CR¹ and C(R²)(R³) and

q is 2 or 3.

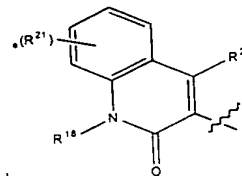
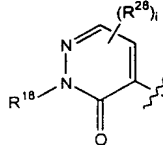
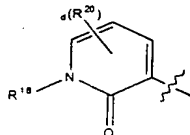
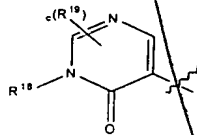
9. A compound of claim 7 which is a derivative thereof selected from the group
consisting of esters, carbamates, amins, amides, optical isomers and pro-drugs.

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A 10. A compound of claim 7 wherein



is selected from the group consisting of



and

wherein R^{19} , R^{20} , R^{21} and R^{28} at each occurrence are independently selected from the group consisting of halogen, alkyl, alkenyl, alkynyl, alkoxy, alkenoxy, alkynoxy, thioalkoxy, hydroxyalkyl, aliphatic acyl, $-CF_3$, $-OH$, $-CO_2H$, $-SH$, $-CN$, $-NO_2$, $-NH_2$, alkynylamino, alkoxycarbonyl, heterocycloyl, carboxy, $-N(C_1-C_3 \text{ alkyl})-C(O)(C_1-C_3 \text{ alkyl})$, $-NHC(O)N(C_1-C_3 \text{ alkyl})C(O)NH(C_1-C_3 \text{ alkyl})$, $-NHC(O)NH(C_1-C_6 \text{ alkyl})$, $-NHSO_2(C_1-C_3 \text{ alkyl})$, $-NHSO_2(\text{aryl})$, alkoxyalkyl, alkylamino, alkenylamino, $di(C_1-C_3)\text{amino}$, $-C(O)O-(C_1-C_3)\text{alkyl}$, $-C(O)NH-(C_1-C_3)\text{alkyl}$, $-C(O)N(C_1-C_3 \text{ alkyl})_2$, $-CH=NOH$, $-PO_3H_2$, $-OPO_3H_2$, haloalkyl, alkoxyalkoxy, carboxaldehyde, carboxamide, cycloalkyl, cycloalkenyl, cycloalkynyl, cycloalkylalkyl, aryl, aryloxy, arylamino, biaryl, thioaryl, diarylamino, heterocyclyl, alkylaryl, aralkenyl, aralkyl, alkylheterocyclyl, heterocyclylalkyl,

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sulfonyl, $-\text{SO}_2-(\text{C}_1-\text{C}_3 \text{ alkyl})$, $-\text{SO}_3-(\text{C}_1-\text{C}_3 \text{ alkyl})$, sulfonamido, carbamate, aryloxyalkyl and $-\text{C}(\text{O})\text{NH}(\text{benzyl})$ groups;
 R^{18} is selected from the group consisting of alkyl, alkenyl, alkynyl, hydroxyalkyl, aliphatic acyl, alkynylamino, alkoxycarbonyl, heterocycloyl, $-\text{CH}=\text{NOH}$, haloalkyl, alkoxyalkoxy, carboxaldehyde, carboxamide, cycloalkyl, cycloalkenyl, cycloalkynyl, cycloalkylalkyl, aryl, aroyl, aryloxy, arylamino, biaryl, thioaryl, diarylamino, heterocyclyl, alkylaryl, aralkenyl, aralkyl, alkylheterocyclyl, heterocyclylalkyl, carbamate, aryloxyalkyl, hydrogen and $-\text{C}(\text{O})\text{NH}(\text{benzyl})$ groups;

R^{22} is selected from the group consisting of hydrogen, halogen, alkyl, alkenyl, alkynyl, alkoxy, alkenoxy, alkynoxy, thioalkoxy, hydroxyalkyl, aliphatic acyl, $-\text{CF}_3$, $-\text{CO}_2\text{H}$, $-\text{SH}$, $-\text{CN}$, $-\text{NO}_2$, $-\text{NH}_2$, $-\text{OH}$, alkynylamino, alkoxycarbonyl, heterocycloyl, carboxy, $-\text{N}(\text{C}_1-\text{C}_3 \text{ alkyl})-\text{C}(\text{O})(\text{C}_1-\text{C}_3 \text{ alkyl})$, $-\text{NHC}(\text{O})\text{N}(\text{C}_1-\text{C}_3 \text{ alkyl})\text{C}(\text{O})\text{NH}(\text{C}_1-\text{C}_3 \text{ alkyl})$, $-\text{NHC}(\text{O})\text{NH}(\text{C}_1-\text{C}_6 \text{ alkyl})$, $-\text{NHSO}_2(\text{C}_1-\text{C}_3 \text{ alkyl})$, $-\text{NHSO}_2(\text{aryl})$, alkoxyalkyl, alkylamino, alkenylamino, di (C_1-C_3) amino, $-\text{C}(\text{O})\text{O}-(\text{C}_1-\text{C}_3)\text{alkyl}$, $-\text{C}(\text{O})\text{NH}-(\text{C}_1-\text{C}_3)\text{alkyl}$, $-\text{C}(\text{O})\text{N}(\text{C}_1-\text{C}_3 \text{ alkyl})_2$, $-\text{CH}=\text{NOH}$, $-\text{PO}_3\text{H}_2$, $-\text{OPO}_3\text{H}_2$, haloalkyl, alkoxyalkoxy, carboxaldehyde, carboxamide, cycloalkyl, cycloalkenyl, cycloalkynyl, cycloalkylalkyl, aryl, aroyl, aryloxy, arylamino, biaryl, thioaryl, diarylamino, heterocyclyl, alkylaryl, aralkenyl, aralkyl, alkylheterocyclyl, heterocyclylalkyl, sulfonyl, $-\text{SO}_2-(\text{C}_1-\text{C}_3 \text{ alkyl})$, $-\text{SO}_3-(\text{C}_1-\text{C}_3 \text{ alkyl})$, sulfonamido, carbamate, aryloxyalkyl and $-\text{C}(\text{O})\text{NH}(\text{benzyl})$ groups;

c is an integer of zero to two;

d is an integer of zero to three;

e is an integer of zero to four; and

i is an integer of zero to two.

11. The compound of claim 7 wherein R^{18} is aralkyl;

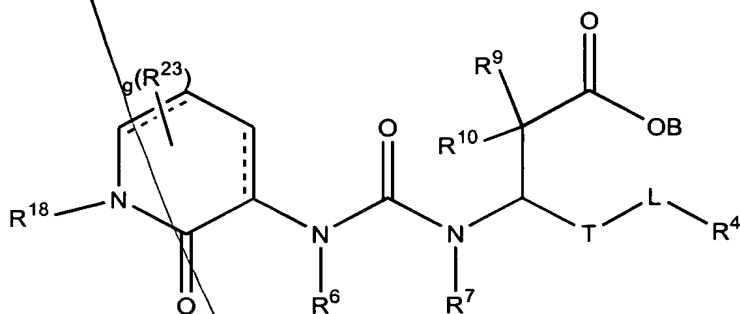
R^4 is aryl;

T is $(\text{CH}_2)_b$ where b is zero;

L is $(CH_2)_n$ where n is zero; and,

B, R^6 , R^7 , R^9 and R^{10} are each independently hydrogen.

12. A compound of the structure



wherein T is selected from the group consisting of $C(O)$ and $(CH_2)_b$ wherein b is an integer of from 0 to 3;

L is selected from the group consisting of O, NR^{11} , S, and $(CH_2)_n$ wherein n is an integer of 0 or 1;

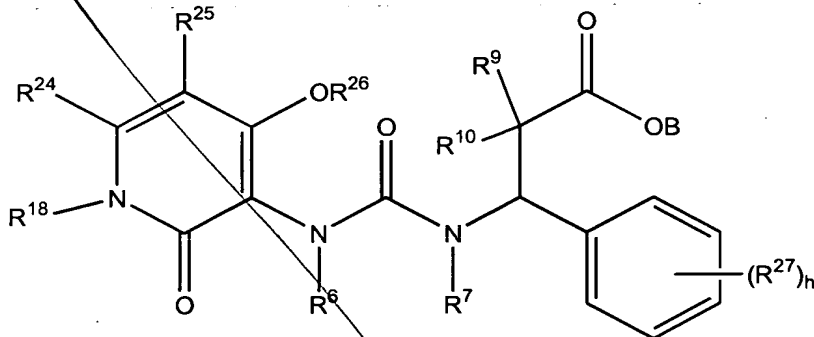
g is an integer of from 0 to 7; and

B, R^4 , R^9 , R^{10} and R^{23} at each occurrence are independently selected from the group consisting of hydrogen, halogen, alkyl, alkenyl, alkynyl, alkoxy, alkenoxy, alkynoxy, thioalkoxy, hydroxyalkyl, aliphatic acyl, $-CF_3$, $-CO_2H$, $-SH$, $-CN$, $-NO_2$, $-NH_2$, $-OH$, alkynylamino, alkoxycarbonyl, heterocycloyl, carboxy, $-N(C_1-C_3 \text{ alkyl})-C(O)(C_1-C_3 \text{ alkyl})$, $-NHC(O)N(C_1-C_3 \text{ alkyl})C(O)NH(C_1-C_3 \text{ alkyl})$, $-NHC(O)NH(C_1-C_6 \text{ alkyl})$, $-NHSO_2(C_1-C_3 \text{ alkyl})$, $-NHSO_2(\text{aryl})$, alkoxyalkyl, alkylamino, alkenylamino, $di(C_1-C_3 \text{ amino})$, $-C(O)O-(C_1-C_3 \text{ alkyl})$, $-C(O)NH-(C_1-C_3 \text{ alkyl})$, $-C(O)N(C_1-C_3 \text{ alkyl})_2$, $-CH=NOH$, $-PO_3H_2$, $-OPO_3H_2$, haloalkyl, alkoxyalkoxy, carboxaldehyde, carboxamide, cycloalkyl, cycloalkenyl, cycloalkynyl, cycloalkylalkyl, aryl, aroyl, aryloxy, arylamino, biaryl, thioaryl, diarylamino, heterocyclyl, alkylaryl, aralkenyl, aralkyl, alkylheterocyclyl, heterocyclylalkyl, sulfonyl, $-SO_2-(C_1-C_3 \text{ alkyl})$, $-SO_3-(C_1-C_3 \text{ alkyl})$, sulfonamido, carbamate, aryloxyalkyl and

~~C(O)NH(benzyl) groups;
 R⁶, R⁷, R¹¹ and R¹⁸ are each independently selected from the group consisting of alkyl,
 alkenyl, alkynyl, hydroxyalkyl, aliphatic acyl, alkynylamino, alkoxycarbonyl,
 heterocycloyl, -CH=NOH, haloalkyl, alkoxyalkoxy, carboxaldehyde,
 5 carboxamide, cycloalkyl, cycloalkenyl, cycloalkynyl, cycloalkylalkyl, aryl,
 aroyl, aryloxy, arylamino, biaryl, thioaryl, diarylamino, heterocyclyl, alkylaryl,
 aralkenyl, aralkyl, alkylheterocyclyl, heterocyclylalkyl, carbamate,
 aryloxyalkyl, hydrogen and -C(O)NH(benzyl) groups;
 wherein B, R⁴, R⁶, R⁷, R⁹, R¹⁰, R¹¹, R¹⁸ and R²³ are unsubstituted or substituted
 10 with at least one electron donating or electron withdrawing group;
 wherein when L is NR¹¹, R⁴ and R¹¹ taken together may form a ring;
 and wherein R⁹ and R¹⁰ taken together may form a ring;
 or a pharmaceutically acceptable salt thereof.~~

15 13. A compound of claim 12 which is a derivative thereof selected from the group
 consisting of esters, carbamates, amins, amides, optical isomers and pro-drugs.

20 14. A compound of the structure



wherein h is an integer of zero to five;
 B, R⁹, R¹⁰, R²⁴ and R²⁵ are each independently selected from the group consisting
 of hydrogen, halogen, alkyl, alkenyl, alkynyl, alkoxy, alkenoxy, alkynoxy,
 thioalkoxy, hydroxyalkyl, aliphatic acyl,
 -CF₃, -CO₂H, -SH, -CN, -NO₂, -NH₂, -OH, alkynylamino, alkoxycarbonyl,

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cycloalkylalkyl, aryl, aroyl, aryloxy, arylamino, biaryl, thioaryl, diarylamino, heterocyclyl, alkylaryl, aralkenyl, aralkyl, alkylheterocyclyl, heterocyclylalkyl, carbamate, aryloxyalkyl, hydrogen and $-C(O)NH(\text{benzyl})$ groups; and,

R^{26} is selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, hydroxyalkyl, aliphatic acyl, $-CF_3$, alkoxycarbonyl, heterocycloyl, carboxy, $-C(O)O-(C_1-C_3)\text{alkyl}$, $-C(O)NH-(C_1-C_3)\text{alkyl}$, $-C(O)N(C_1-C_3\text{ alkyl})_2$, $-PO_3H_2$, haloalkyl, carboxamide, cycloalkyl, cycloalkenyl, cycloalkynyl, cycloalkylalkyl, aryl, aroyl, biaryl, heterocyclyl, alkylaryl, aralkenyl, aralkyl, alkylheterocyclyl, heterocyclylalkyl, sulfonyl, $-SO_2-(C_1-C_3\text{ alkyl})$, sulfonamido, aryloxyalkyl and $-C(O)NH(\text{benzyl})$ groups;

wherein B, R^6 , R^7 , R^9 , R^{10} , R^{18} , R^{24} , R^{25} , R^{26} and R^{27} are unsubstituted or substituted with at least one electron donating or electron withdrawing group;

wherein R^{18} and R^{24} taken together may form a ring;

R^{24} and R^{25} taken together may form a ring;

R^{25} and R^{26} taken together may form a ring;

and wherein R^9 and R^{10} taken together may form a ring;

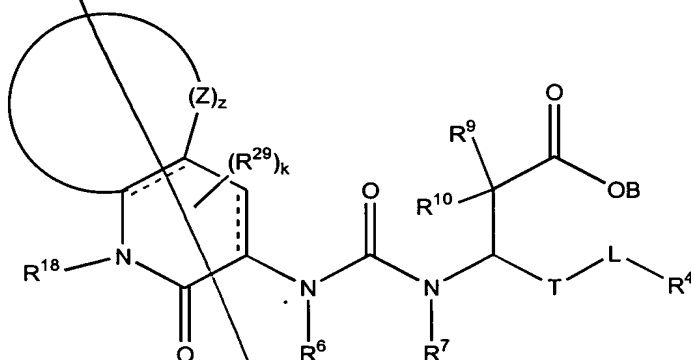
or a pharmaceutically acceptable salt thereof.

15. The compound of claim 14 wherein B, R^6 , R^7 , R^9 , R^{10} , R^{24} , R^{25} and R^{26} are each independently hydrogen and R^{18} is substituted or unsubstituted aralkyl.

16. A compound of claim 14 which is a derivative thereof selected from the group consisting of esters, carbamates, amins, amides, optical isomers and pro-drugs.

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17. A compound of the structure



wherein Z , at each occurrence, is independently selected from the group consisting of $C(O)$, N , CR^{30} , $C(R^{31})(R^{32})$, NR^{33} , CH , O and S ;

z is an integer of from 3 to 6;

k is an integer of from 0 to 5;

T is selected from the group consisting of $C(O)$ and $(CH_2)_b$ wherein b is an integer of from 0 to 3;

L is selected from the group consisting of O , NR^{11} , S , and $(CH_2)_n$ wherein n is an integer of 0 or 1;

R^6 , R^7 , R^{11} , R^{18} and R^{33} are each independently selected from the group consisting of alkyl, alkenyl, alkynyl, hydroxyalkyl, aliphatic acyl, alkynylamino, alkoxycarbonyl, heterocycloyl, $-CH=NOH$, haloalkyl, alkoxyalkoxy, carboxaldehyde, carboxamide, cycloalkyl, cycloalkenyl, cycloalkynyl, cycloalkylalkyl, aryl, aroyl, aryloxy, arylamino, biaryl, thioaryl, diarylamino, heterocyclyl, alkylaryl, aralkenyl, aralkyl, alkylheterocyclyl, heterocyclylalkyl, carbamate, aryloxyalkyl, hydrogen and $-C(O)NH(\text{benzyl})$ groups;

B , R^4 , R^9 , R^{10} , R^{30} , R^{31} and R^{32} at each occurrence are independently selected from the group consisting of hydrogen, halogen, alkyl, alkenyl, alkynyl, alkoxy, alkenoxy, alkynoxy, thioalkoxy, hydroxyalkyl, aliphatic acyl, $-CF_3$, $-CO_2H$, $-SH$, $-OH$, $-CN$, $-NO_2$, $-NH_2$, alkynylamino, alkoxycarbonyl, heterocycloyl, carboxy, $-N(C_1-C_3 \text{ alkyl})-C(O)(C_1-C_3 \text{ alkyl})$,

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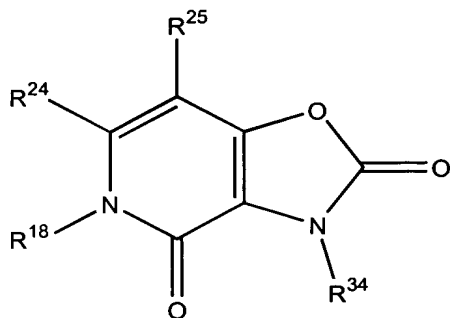
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5 -NHC(O)N(C₁-C₃ alkyl)C(O)NH(C₁-C₃alkyl), -NHC(O)NH(C₁-C₆ alkyl),
 -NHSO₂(C₁-C₃ alkyl), -NHSO₂(aryl), alkoxyalkyl, alkylamino,
 alkenylamino, di(C₁-C₃)amino, -C(O)O-(C₁-C₃)alkyl, -C(O)NH-(C₁-
 C₃)alkyl, -C(O)N(C₁-C₃ alkyl)₂, -CH=NOH, -PO₃H₂, -OPO₃H₂, haloalkyl,
 alkoxyalkoxy, carboxaldehyde, carboxamide, cycloalkyl, cycloalkenyl,
 cycloalkynyl, cycloalkylalkyl, aryl, aroyl, aryloxy, arylamino, biaryl,
 thioaryl, diarylamino, heterocyclyl, alkylaryl, aralkenyl, aralkyl,
 alkylheterocyclyl, heterocyclylalkyl, sulfonyl, -SO₂-(C₁-C₃ alkyl), -SO₃-
 (C₁-C₃ alkyl), sulfonamido, carbamate, aryloxyalkyl and
 10 -C(O)NH(benzyl) groups; and
 R²⁹, at each occurrence, is independently selected from the group consisting of
 halogen, alkyl, alkenyl, alkynyl, alkoxy, alkenoxy, alkynoxy, thioalkoxy,
 hydroxyalkyl, aliphatic acyl, -CF₃, -CO₂H, -SH, -CN, -NO₂, -NH₂, -OH,
 alkynylamino, alkoxycarbonyl, heterocycloyl, carboxy, -N(C₁-C₃ alkyl)-
 15 C(O)(C₁-C₃ alkyl), -NHC(O)N(C₁-C₃ alkyl)C(O)NH(C₁-C₃alkyl),
 -NHC(O)NH(C₁-C₆ alkyl), -NHSO₂(C₁-C₃ alkyl), -NHSO₂(aryl),
 alkoxyalkyl, alkylamino, alkenylamino, di(C₁-C₃)amino, -C(O)O-(C₁-
 C₃)alkyl, -C(O)NH-(C₁-C₃)alkyl, -C(O)N(C₁-C₃ alkyl)₂, -CH=NOH,
 -PO₃H₂, -OPO₃H₂, haloalkyl, alkoxyalkoxy, carboxaldehyde, carboxamide,
 20 cycloalkyl, cycloalkenyl, cycloalkynyl, cycloalkylalkyl, aryl, aroyl,
 aryloxy, arylamino, biaryl, thioaryl, diarylamino, heterocyclyl, alkylaryl,
 aralkenyl, aralkyl, alkylheterocyclyl, heterocyclylalkyl, sulfonyl,
 -SO₂-(C₁-C₃ alkyl), -SO₃-(C₁-C₃ alkyl), sulfonamido, carbamate,
 aryloxyalkyl and -C(O)NH(benzyl) groups;
 25 wherein B, R⁴, R⁵, R⁶, R⁷, R⁹, R¹⁰, R¹¹, R¹⁸, R²⁹, R³⁰, R³¹, R³² and R³³ are
 unsubstituted or substituted with at least one electron donating or electron
 withdrawing group;
 wherein when L is NR¹¹, R⁴ and R¹¹ taken together may form a ring;
 and wherein R⁹ and R¹⁰ taken together may form a ring;
 30 or a pharmaceutically acceptable salt thereof.

18. A compound of claim 17 which is a derivative thereof selected from the group consisting of esters, carbamates, amins, amides, optical isomers and pro-drugs.

19. The compound of claim 17 wherein z is three or four.

20. A compound of the structure



wherein R^{24} and R^{25} are each independently selected from the group consisting of

hydrogen, halogen, alkyl, alkenyl, alkynyl, alkoxy, alkenoxy, alkynoxy, thioalkoxy, hydroxyalkyl, aliphatic acyl, $-CF_3$, $-SH$, $-OH$, $-CO_2H$, $-CN$, $-NO_2$, $-NH_2$, alkynylamino, alkoxycarbonyl, heterocycloyl, carboxy, $-N(C_1-C_3 \text{ alkyl})-C(O)(C_1-C_3 \text{ alkyl})$, $-NHC(O)N(C_1-C_3 \text{ alkyl})C(O)NH(C_1-C_3 \text{ alkyl})$, $-NHC(O)NH(C_1-C_6 \text{ alkyl})$, $-NHSO_2(C_1-C_3 \text{ alkyl})$, $-NHSO_2(\text{aryl})$, alkoxyalkyl, alkylamino, alkenylamino, $di(C_1-C_3 \text{ amino})$, $-C(O)O-(C_1-C_3 \text{ alkyl})$, $-C(O)NH-(C_1-C_3 \text{ alkyl})$, $-C(O)N(C_1-C_3 \text{ alkyl})_2$, $-CH=NOH$, $-PO_3H_2$, $-OPO_3H_2$, haloalkyl, alkoxyalkoxy, carboxaldehyde, carboxamide, cycloalkyl, cycloalkenyl, cycloalkynyl, cycloalkylalkyl, aryl, aroyl, aryloxy, arylamino, biaryl, thioaryl, diarylamino, heterocyclyl, alkylaryl, aralkenyl, aralkyl, alkylheterocyclyl, heterocyclylalkyl, sulfonyl, $-SO_2-(C_1-C_3 \text{ alkyl})$, $-SO_3-(C_1-C_3 \text{ alkyl})$, sulfonamido, carbamate, aryloxyalkyl and $-C(O)NH(\text{benzyl})$ groups; and

R^{18} and R^{34} are each independently selected from the group consisting of alkyl, alkenyl, alkynyl, hydroxyalkyl, aliphatic acyl, alkynylamino, alkoxycarbonyl, heterocycloyl, $-CH=NOH$, haloalkyl, alkoxyalkoxy, carboxaldehyde,

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21. A compound of claim 20 wherein R³⁴ is hydrogen;

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Chemical structure of a substituted benzimidazole derivative. The structure consists of a benzimidazole core fused to a pyridine ring. The benzimidazole ring has a carbonyl group (=O) at position 2 and a substituent R³⁴ on the nitrogen at position 1. The pyridine ring has substituents R²⁴ and R²⁵ at positions 4 and 5, respectively. A benzyl group is attached to the nitrogen at position 3 of the pyridine ring, with a substituent m(R³⁵) on the benzene ring.

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alkyl), -NHSO₂(aryl), alkoxyalkyl, alkylamino, alkenylamino, di(C₁-C₃)amino, -C(O)O-(C₁-C₃)alkyl, -C(O)NH-(C₁-C₃)alkyl, -C(O)N(C₁-C₃alkyl)₂, -CH=NOH, -PO₃H₂, -OPO₃H₂, haloalkyl, alkoxyalkoxy, carboxaldehyde, carboxamide, cycloalkyl, cycloalkenyl, cycloalkynyl, cycloalkylalkyl, aryl, aroyl, aryloxy, arylamino, biaryl, thioaryl, diarylamino, heterocyclyl, alkylaryl, aralkenyl, aralkyl, alkylheterocyclyl, heterocyclylalkyl, sulfonyl, -SO₂-(C₁-C₃alkyl), -SO₃-(C₁-C₃alkyl), sulfonamido, carbamate, aryloxyalkyl and -C(O)NH(benzyl) groups;

R³⁴ is selected from the group consisting of alkyl, alkenyl, alkynyl, hydroxyalkyl, aliphatic acyl, alkynylamino, alkoxycarbonyl, heterocycloyl, -CH=NOH, haloalkyl, alkoxyalkoxy, carboxaldehyde, carboxamide, cycloalkyl, cycloalkenyl, cycloalkynyl, cycloalkylalkyl, aryl, aroyl, aryloxy, arylamino, biaryl, thioaryl, diarylamino, heterocyclyl, alkylaryl, aralkenyl, aralkyl, alkylheterocyclyl, heterocyclylalkyl, carbamate, aryloxyalkyl, hydrogen and -C(O)NH(benzyl) groups; and,

R³⁵, at each occurrence, is independently selected from the group consisting of halogen, hydroxyl, alkyl, alkenyl, alkynyl, alkoxy, alkenoxy, alkynoxy, thioalkoxy, hydroxyalkyl, aliphatic acyl, -CF₃, -CO₂H, -SH, -CN, -NO₂, -NH₂, alkynylamino, alkoxycarbonyl, heterocycloyl, carboxy, -N(C₁-C₃alkyl)-C(O)(C₁-C₃alkyl), -NHC(O)N(C₁-C₃alkyl)C(O)NH(C₁-C₃alkyl), -NHC(O)NH(C₁-C₆alkyl), -NHSO₂(C₁-C₃alkyl), -NHSO₂(aryl), alkoxyalkyl, alkylamino, alkenylamino, di(C₁-C₃)amino, -C(O)O-(C₁-C₃)alkyl, -C(O)NH-(C₁-C₃)alkyl, -C(O)N(C₁-C₃alkyl)₂, -CH=NOH, -PO₃H₂, -OPO₃H₂, haloalkyl, alkoxyalkoxy, carboxaldehyde, carboxamide, cycloalkyl, cycloalkenyl, cycloalkynyl, cycloalkylalkyl, aryl, aroyl, aryloxy, arylamino, biaryl, thioaryl, diarylamino, heterocyclyl, alkylaryl, aralkenyl, aralkyl, alkylheterocyclyl, heterocyclylalkyl, sulfonyl, -SO₂-(C₁-C₃alkyl), -SO₃-(C₁-C₃alkyl), sulfonamido, carbamate, aryloxyalkyl and -C(O)NH(benzyl) groups;

wherein R²⁴, R²⁵, R³⁴ and R³⁵ are unsubstituted or substituted with

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at least one electron donating or electron withdrawing group; and,

m is an integer of from 0 to 5.

- 5 23. A compound of claim 22 wherein R³⁴ is hydrogen;
m is an integer of one to three and R³⁵ at each occurrence is selected from the group consisting of alkyl, halogen, alkoxy, haloalkyl, sulfonyl, -OH and -CN.

24. A compound of claim 20 selected from the group consisting of

- 10 5-(2-chlorobenzyl)-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chlorobenzyl)-6-methyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-fluorobenzyl)-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chloro-6-fluorobenzyl)-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-benzyl-6-methyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-benzyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2,5-dimethylbenzyl)-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-methylbenzyl)-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2,4-dichlorobenzyl)-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-methoxybenzyl)-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2,5-difluorobenzyl)-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-[2-chloro-5-(methylthio)benzyl]-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(4-fluorobenzyl)-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chloro-5-methoxybenzyl)-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-[3,5-bis(trifluoromethyl)benzyl]-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(4-tert-butylbenzyl)-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(3-chlorobenzyl)-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(4-chlorobenzyl)-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-[3-(trifluoromethyl)benzyl]-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-bromobenzyl)-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(3,4-dichlorobenzyl)-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(4-methylbenzyl)-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chloro-6-methoxybenzyl)-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-[4-(trifluoromethyl)benzyl]-3,5-
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- dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(3-methylbenzyl)-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(pyridin-2-ylmethyl)-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chlorobenzyl)-7-methyl-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2,4-difluorobenzyl)-3,5-
 5 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2,6-difluorobenzyl)-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-[3-(trifluoromethoxy)benzyl]-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-[4-(trifluoromethoxy)benzyl]-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-[2-(trifluoromethyl)benzyl]-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(3-methoxybenzyl)-3,5-
 10 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2,3-dichlorobenzyl)-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(3,5-dimethylbenzyl)-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chlorobenzyl)-7-pentyl-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2,4-dichlorobenzyl)-7-methyl-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chlorobenzyl)-7-ethyl-3,5-
 15 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 7-butyl-5-(2-chlorobenzyl)-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-[2-chloro-5-(trifluoromethyl)benzyl]-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2,6-dichlorobenzyl)-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chloro-5-fluorobenzyl)-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chloro-6-methylbenzyl)-7-methyl-3,5-
 20 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(4-chlorobenzyl)-7-methyl-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chlorobenzyl)-5,6,7,8-tetrahydro-2H-
 cyclopenta[b][1,3]oxazolo[5,4-d]pyridine-2,4(3H)-dione, 7-methyl-5-[4-
 (methylsulfonyl)benzyl]-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(4-
 methoxybenzyl)-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chlorobenzyl)-7-
 25 propyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 4-[(2,4-dioxo-2,3-
 dihydro[1,3]oxazolo[4,5-c]pyridin-5(4H)-yl)methyl]-N,N-dimethylbenzenesulfonamide, 5-
 (mesitylmethyl)-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chlorobenzyl)-
 3,5,6,7,8,9-hexahydro[1,3]oxazolo[4,5-c]quinoline-2,4-dione, 5-(2-chlorobenzyl)-7-ethyl-6-
 methyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-[2-(methylthio)benzyl]-3,5-
 30 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 2-[(2,4-dioxo-2,3-dihydro[1,3]oxazolo[4,5-
 c]pyridin-5(4H)-yl)methyl]-N,N-dimethylbenzenesulfonamide, 5-(2,6-dimethoxybenzyl)-3,5-

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- dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-[2-(trifluoromethoxy)benzyl]-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chlorobenzyl)-6,7-dimethyl-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-[2-chloro-5-(methylsulfonyl)benzyl]-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(4-chloro-2-methoxybenzyl)-3,5-
 5 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chlorobenzyl)-5,6,7,8,9,10-hexahydro-
 2H-cyclohepta[b][1,3]oxazolo[5,4-d]pyridine-2,4(3H)-dione, 5-[2-(difluoromethoxy)benzyl]-
 3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 7-methyl-5-[(1R)-1-phenylethyl]-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(4-chlorobenzyl)-7-propyl-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-[2-(methylsulfonyl)benzyl]-3,5-
 10 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2,6-dimethylbenzyl)-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 3-chloro-2-[(2,4-dioxo-2,3-
 dihydro[1,3]oxazolo[4,5-c]pyridin-5(4H)-yl)methyl]benzonitrile, 5-(2-chloro-6-
 methylbenzyl)-6,7-dimethyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 2-[(2,4-dioxo-
 2,3-dihydro[1,3]oxazolo[4,5-c]pyridin-5(4H)-yl)methyl]benzonitrile, 5-(2-chloro-6-
 15 methoxybenzyl)-7-methyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-[3-
 (methylthio)benzyl]-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chlorobenzyl)-7-
 cyclopropyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(3-chlorobenzyl)-7-methyl-
 3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2,6-dichlorobenzyl)-7-methyl-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 7-methyl-5-(4-methylbenzyl)-3,5-
 20 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(3,5-dimethoxybenzyl)-7-methyl-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2,6-difluorobenzyl)-7-methyl-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-[3-(methylsulfonyl)benzyl]-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chloro-6-ethoxybenzyl)-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chloro-6-ethoxybenzyl)-7-methyl-3,5-
 25 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-fluoro-6-methoxybenzyl)-7-methyl-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chloro-6-methoxybenzyl)-7-propyl-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(5-chloro-2-fluorobenzyl)-7-methyl-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chlorobenzyl)-7-isopropyl-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(5-fluoro-2-methylbenzyl)-7-methyl-3,5-
 30 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 7-methyl-5-[(1S)-1-phenylethyl]-3,5-
 dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chloro-5-isopropoxybenzyl)-7-methyl-

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- 3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(5-acetyl-2-methoxybenzyl)-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chlorobenzyl)-7-methyl-3,5-dihydro[1,3]oxazolo[4,5-d]pyridazine-2,4-dione, 5-[2-fluoro-6-(trifluoromethyl)benzyl]-7-methyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chloro-6-methylbenzyl)-
- 5 5,6,7,8-tetrahydro-2H-cyclopenta[b][1,3]oxazolo[5,4-d]pyridine-2,4(3H)-dione, 5-(2-chloro-6-ethoxybenzyl)-7-ethyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chloro-6-propoxybenzyl)-7-methyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chloro-6-isobutoxybenzyl)-7-methyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chloro-6-ethoxybenzyl)-5,6,7,8-tetrahydro-2H-cyclopenta[b][1,3]oxazolo[5,4-d]pyridine-2,4(3H)-
- 10 dione, 5-(2-chloro-6-isopropoxybenzyl)-7-methyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-[2-chloro-6-(2,2,2-trifluoroethoxy)benzyl]-7-methyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chloro-6-ethoxybenzyl)-7-methyl-3,5-dihydro[1,3]oxazolo[4,5-d]pyridazine-2,4-dione, 5-[2-chloro-6-(2-methoxyethoxy)benzyl]-
- 15 5,6,7,8-tetrahydro-2H-cyclopenta[b][1,3]oxazolo[5,4-d]pyridine-2,4(3H)-dione, 5-(2-chloro-6-ethoxybenzyl)-6,7-dimethyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chloro-6-ethoxybenzyl)-7-ethyl-6-methyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chlorobenzyl)-7-ethyl-3,5-dihydro[1,3]oxazolo[4,5-d]pyridazine-2,4-dione, 5-(2-chloro-6-ethoxybenzyl)-7-propyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chloro-6-ethoxybenzyl)-7-cyclopropyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chloro-
- 20 5-propoxybenzyl)-7-methyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chloro-5-methoxybenzyl)-7-methyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chloro-6-ethoxybenzyl)-6-methyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2-chloro-5-ethoxybenzyl)-7-methyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-[2-chloro-5-(piperidin-1-ylsulfonyl)benzyl]-7-methyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione,
- 25 5-[2-chloro-5-(pyrrolidin-1-ylsulfonyl)benzyl]-7-methyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-[2-chloro-6-(cyclopentylmethoxy)benzyl]-7-methyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-[2-(benzyloxy)-6-chlorobenzyl]-7-methyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione, 5-(2,3-dichloro-6-ethoxybenzyl)-5,6,7,8-tetrahydro-2H-cyclopenta[b][1,3]oxazolo[5,4-d]pyridine-2,4(3H)-dione, 5-[2-chloro-5-
- 30 (trifluoromethyl)benzyl]-7-methyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione and 5-(2-chloro-5-fluorobenzyl)-7-methyl-3,5-dihydro[1,3]oxazolo[4,5-c]pyridine-2,4-dione.

25. A compound selected from the group consisting of

- (3S)-3-[(2-methyl-4-(2-methylpropyl)-6-oxo-1-(phenylmethyl)-1,6-dihydro-5-pyrimidinyl]amino} carbonyl]amino]-3-(4-methylphenyl)propanoic acid, (3S)-3-(1,3-benzodioxol-5-yl)-3-[(2-oxo-1-(phenylmethyl)-4-propyl-1,2-dihydro-3-pyridinyl]amino} carbonyl]amino]propanoic acid, (3S)-3-[(1-[(2-chlorophenyl)methyl]-4-ethyl-2-oxo-1,2-dihydro-3-pyridinyl]amino)carbonyl]amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-[(2-chlorophenyl)methyl]-2-oxo-4-propyl-1,2-dihydro-3-pyridinyl]amino)carbonyl]amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-[(2-chlorophenyl)methyl]-4-methyl-2-oxo-1,2-dihydro-3-pyridinyl]amino)carbonyl]amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-[(2-chlorophenyl)methyl]-4-methyl-2-oxo-1,2-dihydro-3-pyridinyl]amino)carbonyl]amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-[(2-chlorophenyl)methyl]-4-methyl-2-oxo-1,2-dihydro-3-pyridinyl]amino)carbonyl]amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-[(2-chlorophenyl)methyl]-2,4-dimethyl-6-oxo-1,6-dihydro-5-pyrimidinyl]amino)carbonyl]amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-[(2-chlorophenyl)methyl]-6-methyl-2-oxo-1,2-dihydro-3-pyridinyl]amino)carbonyl]amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-[(2-chlorophenyl)methyl]-4-methyl-2-oxo-1,2-dihydro-3-pyridinyl]amino)carbonyl]amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-[(2-chlorophenyl)methyl]-4-methyl-2-oxo-1,2-dihydro-3-pyridinyl]amino)carbonyl]amino}-3-(4-methyloxy)phenyl]propanoic acid, (3S)-3-[(1-[(2-chlorophenyl)methyl]-4-methyl-2-oxo-1,2-dihydro-3-pyridinyl]amino)carbonyl]amino}-3-(3,4-dimethylphenyl)propanoic acid, (3S)-3-[(1-[(2-chlorophenyl)methyl]-2-oxo-1,2-dihydro-3-pyridinyl]amino)carbonyl]amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-[(2-chlorophenyl)methyl]-4-hydroxy-2-oxo-1,2-dihydro-3-pyridinyl]amino)carbonyl]amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-[(2-chlorophenyl)methyl]-4-(1,4-oxazinan-4-yl)-2-oxo-1,2-dihydro-3-pyridinyl]amino} carbonyl]amino]-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-[(2-chlorophenyl)methyl]-2-oxo-4-(propylamino)-1,2-dihydro-3-pyridinyl]amino} carbonyl]amino]-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-[(2-bromophenyl)methyl]-4-methyl-2-oxo-1,2-dihydro-3-pyridinyl]amino)carbonyl]amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-[(2-chlorophenyl)methyl]-4-hydroxy-2-oxo-1,2-dihydro-3-pyridinyl]amino)carbonyl]amino}-3-[3-methyl-4-(methyloxy)phenyl]propanoic acid, (3S)-3-[(1-[(2-chlorophenyl)methyl]-2-oxo-4-phenyl-1,2-dihydro-3-

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- pyridinyl} amino)carbonyl] amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-{{{1-[(2-chlorophenyl)methyl]-4-[(2-{[2-(methyloxy)ethyl]oxy}ethyl)oxy]-2-oxo-1,2-dihydro-3-pyridinyl} amino)carbonyl] amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-{{{1-[(2-chlorophenyl)methyl]-4-hydroxy-6-methyl-2-oxo-1,2-dihydro-3-
- 5 pyridinyl} amino)carbonyl] amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-{{{1-[(2-chlorophenyl)methyl]-4-[(1,1-dimethylethyl) amino]-2-oxo-1,2-dihydro-3-pyridinyl} amino)carbonyl] amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-{{{1-[(2-chlorophenyl)methyl]-4-hydroxy-2-oxo-1,2-dihydro-3-pyridinyl} amino)carbonyl] amino}-3-phenylpropanoic acid, (3S)-3-{{{1-[(2-chlorophenyl)methyl]-4-[4-methyltetrahydro-1(2H)-
- 10 pyrazinyl]-2-oxo-1,2-dihydro-3-pyridinyl} amino)carbonyl] amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-{{{1-[(2-chlorophenyl)methyl]-4-hydroxy-2-oxo-1,2-dihydro-3-pyridinyl} amino)carbonyl] amino}-3-[4-(methyloxy)phenyl]propanoic acid, (3S)-3-{{{1-[(2-chlorophenyl)methyl]-4-hydroxy-2-oxo-1,2-dihydro-3-pyridinyl} amino)carbonyl] amino}-3-(3,5-dimethylphenyl)propanoic acid, (3S)-3-{{{1-[(2-chlorophenyl)methyl]-4-hydroxy-2-oxo-1,2-dihydro-3-pyridinyl} amino)carbonyl] amino}-3-
- 15 (3-methylphenyl)propanoic acid, (3S)-3-{{{1-[(2-chlorophenyl)methyl]-4-hydroxy-2-oxo-1,2-dihydro-3-pyridinyl} amino)carbonyl] amino}-3-[3-(methyloxy)phenyl]propanoic acid, (3S)-3-[3,5-bis(methyloxy)phenyl]-3-{{{1-[(2-chlorophenyl)methyl]-4-hydroxy-2-oxo-1,2-dihydro-3-pyridinyl} amino)carbonyl] amino}propanoic acid, (3S)-3-{{{1-[(2-chlorophenyl)methyl]-4-hydroxy-2-oxo-1,2-dihydro-3-quinolinyl} amino)carbonyl] amino}-3-
- 20 (4-methylphenyl)propanoic acid, (3S)-3-{{{1-[(2-chlorophenyl)methyl]-4-hydroxy-2-oxo-1,2-dihydro-3-pyridinyl} amino)carbonyl] amino}-3-[3-(trifluoromethyl)phenyl]propanoic acid, (3S)-3-{{{1-[(2-chlorophenyl)methyl]-4-({ethyl[(ethylamino)carbonyl] amino} carbonyl) amino]-2-oxo-1,2-dihydro-3-
- 25 pyridinyl} amino)carbonyl] amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-{{{4-(1-azetanyl)-1-[(2-chlorophenyl)methyl]-2-oxo-1,2-dihydro-3-pyridinyl} amino)carbonyl] amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-{{{1-[(2-chlorophenyl)methyl]-4-({2-[(2-{[2-(methyloxy)ethyl]oxy}ethyl)oxy]ethyl}oxy)-2-oxo-1,2-dihydro-3-pyridinyl} amino)carbonyl] amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-
- 30 {{{1-[(2-fluorophenyl)methyl]-4-hydroxy-2-oxo-1,2-dihydro-3-pyridinyl} amino)carbonyl] amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-{{{1-[(2-

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- chloro-6-fluorophenyl)methyl]-4-hydroxy-2-oxo-1,2-dihydro-3-pyridinyl} amino)carbonyl]amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-{{{1-[(2-chlorophenyl)methyl]-5-methyl-2-oxo-1,2-dihydro-3-pyridinyl} amino)carbonyl]amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-(1,3-benzodioxol-5-yl)-3-(((2-oxo-1-((4-(trifluoromethyl)phenyl)methyl)-1,2 dihydro-3-pyridinyl)amino)carbonyl)amino)propanoic acid, (3S)-3-(((1-((2-chlorophenyl)methyl)-2-oxo-1,2-dihydro-3-pyridinyl)amino)carbonyl)amino)-3-(4-methylphenyl)propanoic acid, (3S)-3-(((1-((2-fluorophenyl)methyl)-2-oxo-1,2-dihydro-3-pyridinyl)amino)carbonyl)amino)-3-(4-methylphenyl)propanoic acid, (3S)-3-(((1-((2-bromophenyl)methyl)-2-oxo-1,2-dihydro-3-pyridinyl)amino)carbonyl)amino)-3-(4-methylphenyl)propanoic acid, (3S)-3-(((1-((2,4-dichlorophenyl)methyl)-2-oxo-1,2-dihydro-3-pyridinyl)amino)carbonyl)amino)-3-(4-methylphenyl)propanoic acid, (3S)-3-(((1-((2-chloro-6-fluorophenyl)methyl)-2-oxo-1,2-dihydro-3-pyridinyl)amino)carbonyl)amino)-3-(4-methylphenyl)propanoic acid, (3S)-3-(((1-((2-chlorophenyl)methyl)-4-hydroxy-2-oxo-1,2-dihydro-3-pyridinyl)amino)carbonyl)amino)-3-(4-trifluoromethyl)oxy)phenyl)propanoic acid, (3S)-3-[[{1-(2-chloro-6-methoxybenzyl)-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl]amino]-3-(4-methylphenyl)propanoic acid, 4-{{3-[[{1-(2-chlorobenzyl)-4-[(2,3-dimethylpropanoyl)amino]-2-oxo-1,2-dihydropyridin-3-yl] amino)carbonyl]amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-[[{1-(2-chlorobenzyl)-4-[(2,3-dimethylpropanoyl)amino]-2-oxo-1,2-dihydropyridin-3-yl] amino)carbonyl]amino}-3-(4-methylphenyl)propanoic acid, (3S)-3-[[{4-[[tert-butylamino)carbonyl]amino]-1-(2-chlorobenzyl)-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl]amino]-3-(4-methylphenyl)propanoic acid, (3S)-3-[[{1-(2-cyanobenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl]amino]-3-(4-methylphenyl)propanoic acid, (3S)-3-[[{1-(2-chlorobenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl]amino]-3-(2,3-dihydro-1,4-benzodioxin-6-yl)propanoic acid, (3S)-3-[[{1-(2-chlorobenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl]amino]-3-(7-methoxy-1,3-benzodioxol-5-yl)propanoic acid, (3S)-3-[[{1-(2-chlorobenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl]amino]-3-(3-ethoxy-4-methoxyphenyl)propanoic acid, (3S)-3-[[{1-(2-chlorobenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl]amino]-3-(3,4-dimethoxyphenyl)propanoic acid, (3S)-3-[[{1-(4-chlorobenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl]amino]-3-(4-methylphenyl)propanoic acid, (3S)-3-[[{1-

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- (2-chloro-6-methoxybenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl)amino]-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-5-methyl-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl)amino]-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-(2,6-difluorobenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl)amino]-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl)amino]-3-(3,5-dimethoxyphenyl)propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl)amino]-3-(3,4-diethoxyphenyl)propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl)amino]-3-(3-ethoxyphenyl)propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl)amino]-3-(3-methoxy-4-methylphenyl)propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl)amino]-3-(3,5-dimethoxy-4-methylphenyl)propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl)amino]-3-(3,4-dimethylphenyl)propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-5-ethyl-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl)amino]-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-(2-chloro-5-(trifluoromethyl)benzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl)amino]-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-(2-chloro-6-methoxybenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl)amino]-3-(3-methylphenyl)propanoic acid, (3S)-3-[(1-(2-chloro-6-methylbenzyl)-4-hydroxy-5-methyl-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl)amino]-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl]amino} carbonyl)amino]-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-(2,6-dimethoxybenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl)amino]-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl)amino]-3-(3-propoxyphenyl)propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-2-oxo-5-propyl-1,2-dihydropyridin-3-yl]amino} carbonyl)amino]-3-(3-ethoxyphenyl)propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-5,6-dimethyl-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl)amino]-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-2-oxo-5-propyl-1,2-dihydropyridin-3-yl]amino} carbonyl)amino]-3-(3,4-

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- diethoxyphenyl)propanoic acid, (3S)-3-(3-butoxyphenyl)-3-[(1-(2-chlorobenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl)amino]carbonyl)amino]propanoic acid, (3S)-3-[(1-(2-chloro-5-(methylsulfonyl)benzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl)amino]carbonyl)amino]-3-(4-methylphenyl)propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl)amino]carbonyl)amino]-3-[3-(2-methoxyethoxy)phenyl]propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl)amino]carbonyl)amino]-3-(3,4-dipropoxyphenyl)propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl)amino]carbonyl)amino]-3-[3-(difluoromethoxy)phenyl]propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-5-methyl-2-oxo-1,2-dihydropyridin-3-yl)amino]carbonyl)amino]-3-(3,4-diethoxyphenyl)propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-5-methyl-2-oxo-1,2-dihydropyridin-3-yl)amino]carbonyl)amino]-3-(3-ethoxyphenyl)propanoic acid, (3S)-3-[(1-(2-chloro-6-methylbenzyl)-4-hydroxy-5,6-dimethyl-2-oxo-1,2-dihydropyridin-3-yl)amino]carbonyl)amino]-3-(3,4-diethoxyphenyl)propanoic acid, (3S)-3-[(1-(2-chloro-6-cyanobenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl)amino]carbonyl)amino]-3-(4-methylphenyl)propanoic acid, 3-[(1-(2-chlorobenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl)amino]carbonyl)amino]-3-(2-naphthyl)propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-5,6-dimethyl-2-oxo-1,2-dihydropyridin-3-yl)amino]carbonyl)amino]-3-(3,4-diethoxyphenyl)propanoic acid (3S)-3-[(1-(2-chloro-6-methoxybenzyl)-4-hydroxy-5-methyl-2-oxo-1,2-dihydropyridin-3-yl)amino]carbonyl)amino]-3-(3,4-diethoxyphenyl)propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl)amino]carbonyl)amino]-3-(3-isopropoxyphenyl)propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-5-methyl-2-oxo-1,2-dihydropyridin-3-yl)amino]carbonyl)amino]-3-(4-methoxyphenyl)propanoic acid, (3S)-3-[(1-(2-chloro-6-methylbenzyl)-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl)amino]carbonyl)amino]-3-(3-ethoxyphenyl)propanoic acid, (3S)-3-[(1-(2-chloro-6-ethoxybenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl)amino]carbonyl)amino]-3-(3-ethoxyphenyl)propanoic acid, (3S)-3-[(1-(2-chloro-6-ethoxybenzyl)-4-hydroxy-5-methyl-2-oxo-1,2-dihydropyridin-3-yl)amino]carbonyl)amino]-3-(3-isopropoxyphenyl)propanoic acid, (3S)-3-[(1-(2-chloro-6-ethoxybenzyl)-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl)amino]carbonyl)amino]-3-(3-ethoxyphenyl)propanoic acid, (3S)-3-

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- [[{1-(2-chloro-6-ethoxybenzyl)-4-hydroxy-5-methyl-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl]amino]-3-(1-methyl-1H-indol-5-yl)propanoic acid, (3S)-3-[[{1-(2-chloro-6-ethoxybenzyl)-4-hydroxy-5-methyl-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl]amino]-3-(2,3-dihydro-1-benzofuran-5-yl)propanoic acid, (3S)-3-[[{1-(2-chloro-6-ethoxybenzyl)-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl]amino} carbonyl]amino]-3-(3,5-diethoxyphenyl)propanoic acid, (3S)-3-[[{5-chloro-1-(2-chloro-6-ethoxybenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl]amino]-3-(3-ethoxyphenyl)propanoic acid, (3S)-3-[[{1-(2-chloro-6-ethoxybenzyl)-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl]amino]-3-(3-isopropoxyphenyl)propanoic acid, (3S)-3-[[{1-(2-chloro-6-ethoxybenzyl)-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl]amino} carbonyl]amino]-3-(3-propoxyphenyl)propanoic acid, (3S)-3-[[{1-(2-chloro-6-ethoxybenzyl)-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl]amino} carbonyl]amino]-3-phenylpropanoic acid, (3S)-3-[[{1-(2-chlorobenzyl)-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl]amino} carbonyl]amino]-3-(1,3-diethyl-2-oxo-2,3-dihydro-1H-benzimidazol-5-yl)propanoic acid, (3S)-3-[[{1-(2-chloro-6-ethoxybenzyl)-4-hydroxy-5-methyl-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl]amino]-3-[3-(trifluoromethoxy)phenyl]propanoic acid, (3S)-3-[[{1-(2-chloro-6-ethoxybenzyl)-4-hydroxy-5,6-dimethyl-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl]amino]-3-(3-isopropoxyphenyl)propanoic acid, (3S)-3-[[{1-(2-chlorobenzyl)-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl]amino} carbonyl]amino]-3-(1-methyl-1H-indol-5-yl)propanoic acid, (3S)-3-[[{1-(2-chloro-6-ethoxybenzyl)-5-cyclopropyl-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl]amino]-3-(3-isopropoxyphenyl)propanoic acid, (3S)-3-[[{1-(2-chloro-6-ethoxybenzyl)-5-cyclopropyl-4-hydroxy-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl]amino]-3-(4-methylphenyl)propanoic acid, (3S)-3-[[{1-(2-chloro-5-methoxybenzyl)-4-hydroxy-5-methyl-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl]amino]-3-(4-methylphenyl)propanoic acid, (3S)-3-[[{1-(2-chloro-6-ethoxybenzyl)-4-hydroxy-6-methyl-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl]amino]-3-(3-isopropoxyphenyl)propanoic acid, (3S)-3-[[{1-(2-chloro-6-ethoxybenzyl)-4-hydroxy-5-methyl-2-oxo-1,2-dihydropyridin-3-yl]amino} carbonyl]amino]-3-(1-methyl-1H-indol-6-yl)propanoic acid, (3S)-3-[[{1-(2-chloro-6-ethoxybenzyl)-4-hydroxy-2-oxo-2,5,6,7-

- tetrahydro-1H-cyclopenta[b]pyridin-3-yl]amino}carbonyl)amino]-3-[3-(cyclopropyloxy)phenyl]propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl]amino}carbonyl)amino]-3-[3-(cyclopropylmethoxy)phenyl]propanoic acid, (3S)-3-[(1-(2-chloro-6-ethoxybenzyl)-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl]amino}carbonyl)amino]-3-[3-(3-(cyclopropylmethoxy)phenyl]propanoic acid, (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl]amino}carbonyl)amino]-3-(3,5-dimethylphenyl)propanoic acid, (3S)-3-[(1-(2-chlorophenyl)methyl]-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl]amino}carbonyl)amino]-3-[3-[(difluoromethyl)oxy]phenyl]propanoic acid, (3S)-3-[(1-(2-chlorophenyl)methyl]-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl]amino}carbonyl)amino]-3-[3-[(1,1,2,2-tetrafluoroethyl)oxy]phenyl]propanoic acid, (3S)-3-[(1-(2-chlorophenyl)methyl]-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl]amino}carbonyl)amino]-3-(1-ethyl-1H-indol-5-yl)propanoic acid and (3S)-3-[(1-(2-chlorophenyl)methyl]-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl]amino}carbonyl)amino]-3-[3-(diethylamino)phenyl]propanoic acid and pharmaceutical acceptable salts thereof.
26. (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-5-methyl-2-oxo-1,2-dihydropyridin-3-yl]amino}carbonyl)amino]-3-(4-methylphenyl)propanoic acid and pharmaceutically acceptable salts thereof.
27. (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl]amino}carbonyl)amino]-3-(4-methylphenyl)propanoic acid and pharmaceutically acceptable salts thereof.
28. (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-5-methyl-2-oxo-1,2-dihydropyridin-3-yl]amino}carbonyl)amino]-3-[3-(diethylamino)phenyl]propanoic acid and pharmaceutically acceptable salts thereof.

29. A compound selected from the group consisting of (3S)-3-[(1-(2-chloro-6-ethoxybenzyl)-4-hydroxy-5-methyl-2-oxo-1,2-dihydropyridin-3-yl)amino]carbonylamino]-3-(4-methylphenyl)propanoic acid; (3S)-3-[(1-(2-chloro-6-ethoxybenzyl)-4-hydroxy-5-methyl-2-oxo-1,2-dihydropyridin-3-yl)amino]carbonylamino]-3-(3-ethoxyphenyl)propanoic acid; (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl)amino]carbonylamino]-3-(3-isopropoxyphenyl)propanoic acid; (3S)-3-[(1-(2-chloro-6-ethoxybenzyl)-4-hydroxy-5-methyl-2-oxo-1,2-dihydropyridin-3-yl)amino]carbonylamino]-3-(6-methoxy-2-naphthyl)propanoic acid; (3S)-3-[(1-(2-chlorobenzyl)-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl)amino]carbonylamino]-3-(3-methylphenyl)propanoic acid; (3S)-3-[(1-(2-chloro-6-methylphenyl)methyl]-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl)amino]carbonylamino]-3-(1-methyl-1H-indol-5-yl)propanoic acid, (3S)-3-[(1-(2-chlorophenyl)methyl]-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl)amino]carbonylamino]-3-{3-[(methylsulfonyl)amino]phenyl}propanoic acid, (3S)-3-[(1-(2-chloro-6-methylphenyl)methyl]-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl)amino]carbonylamino]-3-{3-[(methylsulfonyl)amino]phenyl}propanoic acid, (3S)-3-[(1-(2-chlorophenyl)methyl]-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl)amino]carbonylamino]-3-{3-[methyl(methylsulfonyl)amino]phenyl}propanoic acid, (3S)-3-[(1-(2-chloro-6-methylphenyl)methyl]-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl)amino]carbonylamino]-3-{3-[methyl(methylsulfonyl)amino]phenyl}propanoic acid, (3S)-3-[(1-(2-chlorophenyl)methyl]-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl)amino]carbonylamino]-3-{3-[ethyl(methylsulfonyl)amino]phenyl}propanoic acid, (3S)-3-[(1-(2-chloro-6-methylphenyl)methyl]-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl)amino]carbonylamino]-3-{3-[ethyl(methylsulfonyl)amino]phenyl}propanoic acid, (3S)-3-[(1-(2-chloro-6-methylphenyl)methyl]-4-hydroxy-2-oxo-2,5,6,7-tetrahydro-1H-cyclopenta[b]pyridin-3-yl)amino]carbonylamino]-3-(1H-indol-5-yl)propanoic acid and pharmaceutically acceptable salts thereof.

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30. A pharmaceutical composition comprising:
a compound of claim 1
in a pharmaceutically acceptable carrier.
- 5 31. A method for selectively inhibiting $\alpha_4\beta_1$ integrin binding in a mammal comprising
administering to said mammal a therapeutic amount of a compound of claim 1.

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